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PATENT  
Attorney Docket No.: 020444-000710US

On September 26, 2003

TOWNSEND and TOWNSEND and CREW LLP

By: Kathryn A. Deglianton

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

LUKE V. SCHNEIDER, et al.

Application No.: 10/035,349

Filed: October 19, 2001

For: MASS DEFECT LABELING FOR  
THE DETERMINATION OF  
OLIGOMER SEQUENCES

Group Director: 1634

Examiner: Chakrabarti, Arun K.

Art Unit: 1634

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed.

Also enclosed is a copy of the Search/Examination report corresponding to the PCT application. The Examination Report cites published patent application No. US 2002/01686642 A1 for Drukier. However, patent application No. US 2002/01686642 A1 is obviously a typographical error because the publication date, filing date, and priority date correspond to Drukier, No. US 2002/0168642 A1 (copy enclosed).

10/01/2003 SSESHE1 00000150 201430 10035349

01 FC:1806 180.00 DA

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

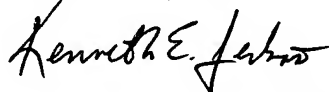
This IDS is being filed on or before payment of the issue fee.

CERTIFICATION

I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

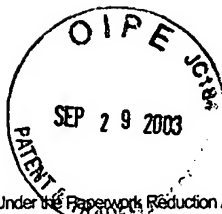
Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Kenneth E. Jenkins, Ph.D.  
Reg. No. 51,846

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
Tel: 415-576-0200  
Fax: 415-576-0300  
KEJ:kad  
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PTO/SB/08B (04-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/035,349
		Filing Date	October 19, 2001
		First Named Inventor	Schneider, Luke V., et. al.
		Art Unit	1634
		Examiner Name	Chakrabarti, Arun K.
Page 3 of 3	Attorney Docket Number	020444-000710US	

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	2002/0168842 A1	11-14-2002	Drukier	
	AB	5,625,184	04-29-1997	Vestal et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			T <sup>6</sup>

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AC	HOBBA et al., "The insulin-like growth factor (IGF) binding site of bovine insulin-like growth factor binding protein-2 (bIGFBP-2) probed by iodination" J. Biol. Chem. 271(48):30529-30536 (11/29/1996)	
	AD	THOMSSON et al., "Sequencing of sulfated oligosaccharides from mucins by liquid chromatography and electrospray ionization tandem mass spectrometry" Anal. Chem. 72(19):4543-4549 (10/01/2000)	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **3** of **6****Complete if Known**

Application Number	10/035,349
Filing Date	October 19, 2001
First Named Inventor	Schneider, Luke V., et. al.
Art Unit	1645
Examiner Name	Not yet assigned
Attorney Docket Number	020444-000710US

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AA	US-6,194,144	B1	02/27/01	Koster	
	AB	US-6,027,890-		02/22/00	Ness et al.	
	AC	US-5,667,984		09/16/97	Parekh et al.	
	AD	US-4,830,010		05/16/89	Marshall	
	AE	US-5,386,832		02/07/95	Wagner et al.	
	AF	US-6,379,971		04-2002	Schneider et al.	
	AG	US-6,335,525		01-2002	Takada et al.	
	AH	US-6,329,146		12-2001	Crooke et al.	
	AI	US-6,277,644		08-2001	Farnsworth et al.	
	AJ	US-5,470,753		11-1995	Sepetov et al.	
	AK	US-5,538,897		07-1996	Yates, III et al.	
	AL	US-5,827,659		10-1998	Patterson	
	AM	US-5,919,709		07-1999	Parmelee et al.	
	AN	US-6,004,770		12-1999	Nelson	
	AO	US-6,017,693		01-2000	Yates, III et al.	
	AP	US-4,842,701		06/27/89	Smith et al.	
	AQ	US-4,994,165		02/19/91	Lee et al.	
	AR	US-5,306,412		04/26/94	Whitehouse et al.	
	AS	US-5,505,832		04/09/96	Laukien et al.	
	AT	US-5,856,082		01/05/99	Aebersold et al.	
	AU	US-5,872,010		02/16/99	Karger et al.	
	AV	US-5,174,962		12/29/92	Brennan	
	AW	US-6,359,111		03/19/02	Meyer et al.	
	AX	US-6,391,649		05/21/02	Chait et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	AY	PCT	WO 02/061661	A2	08/08/02	Schneider et al.		<input type="checkbox"/>
	AZ	PCT	WO 96/33406	A1	10/24/96	Minden et al.		<input type="checkbox"/>
	BA	PCT	WO 00/11208	A1	03/02/00	Aebersold et al.		<input type="checkbox"/>
	BB	PCT	WO 99/32501	A1	07/01/99	Schmidt et al.		<input type="checkbox"/>

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **4** of **6**

### Complete if Known

Application Number	10/035,349
Filing Date	October 19, 2001
First Named Inventor	Schneider, Luke V., et. al.
Art Unit	1645
Examiner Name	Not yet assigned
Attorney Docket Number	020444-000710US

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	BC	Yates, J.R., <i>Anal. Biochem.</i> , 214:397-408 (1993)	
	BD	Scholz, E., <i>J Capillary Electrophor.</i> , 4:287-292 (1997)	
	BE	Biemann, K., <i>Methods Enzymol.</i> , 193:455-79 (1990)	
	BF	Schnoelzer, M., <i>Electrophoresis</i> , 17:945-953 (1996)	
	BG	Zaia, J., <i>J. Am. Soc. Mass Spectrom.</i> , 6:428-36 (1995)	
	BH	Stults, J.T., <i>Anal. Chem.</i> , 65:1702-1708 (1993)	
	BI	Zaia, J., <i>Methods Mol. Biol.</i> , 61:29-41 (1996)	
	BJ	Huehmer, A.F.R., <i>Anal. Chem.</i> , 69:29R-57R (1997)	
	BK	Rose, K., <i>Biochem. J.</i> , 250:253-259 (1988)	
	BL	Shevchenko, A., <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 93:14440-14445 (1996)	
	BM	Clauser, K.R., <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:5072-5076 (1995)	
	BN	Li, G., <i>Electrophoresis</i> , 18:391-402 (1997)	

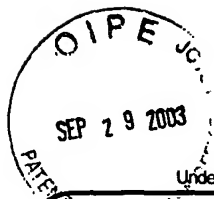
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First Named Inventor		Schneider, Luke V., et. al.	
Art Unit		1645	
Examiner Name		Not yet assigned	
Attorney Docket Number		020444-000710US	
Sheet	5	of	6

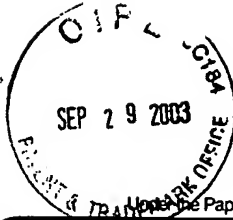
FOREIGN PATENT DOCUMENTS								
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	BO	Murphy, C.M., <i>Anal. Chem.</i> , 67:1644-1645 (1995)						
	BP	Johnson, R. S. et al., <i>International Journal of Mass Spectrom and Ion Process</i> , 86:137-154 (1998)						
	BQ	Vath, J.E. et al., <i>Fresenius Z Anal. Chem.</i> , 331:248-252 (1998)						
	BR	Wagner, D.S. et al., <i>Biol. Mass Spectrom.</i> , 20:419-425 (1991)						
	BS	Huang, Z.-H. et al., <i>Anal. Biochem.</i> , 266:305-317 (1999)						
	BT	Tomer, K.B. et al., <i>J. Am. Chem. Soc.</i> , 105:5487-5488 (1983)						
	BU	Bures, E.J. et al., <i>Anal. Biochem.</i> , 224:364-372 (1995)						
	BV	Aebersold, R. et al., <i>Protein Science</i> , pp. 494-503 (Cambridge University Press (1992)						
	BW	Provisional Patent Application No. 60/415,481, filed 10/01/02						
	BX	Patent Application Serial No. 10/068,359, filed 02/06/02, entitled: METHOD FOR SEQUENCE PROTEINS						
	BY	Patent Application Serial No. 10/035,349, filed 10/19/01, entitled: MASS DEFECT LABELING FOR THE DETERMINATION OF OLIGOMER SEQUENCES						
	BZ	Provisional Patent Application No. 60/242,165, filed 05/07/01						
	CA	Patent Application Serial No. 09/513,907, filed 02/25/00, entitled: POLYPEPTIDE FINGERPRINTING METHODS AND BIOINFORMATICS DATA BASE SYSTEM						
	CB	Patent Application Serial No. 09/551,937, filed 04/19/00,entitled: LABELING OF PROTEIN SAMPLES						

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Sheet **6** of **6****Complete if Known**

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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	CC	Provisional Patent Application No. 60/242,398						
	CD	Li, G. et al., "Improvement on sample handling for rapid mass spectrometric Identification of proteasins resolved by 2D gel electrophoresis". Book of Abstracts, 213th ACS National Meeting, San Francisco, 13-17, Anal. 92 (April 1997)						
	CE	Mann and Wilm, "Error-Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags", <i>Anal. Chem.</i> , 66(24) 4390-4399 (December 15, 1994)						
	CF	Jensen et al., "Sequence patterns produced by incomplete enzymatic digestion or one-step Edman degradation of peptide mixtures as probes for protein database searches", <i>Electrophoresis</i> , 17:938-944 (1996)						
	CG	Wilkins et al., "Protein identification with sequence tags", <i>Current Biology</i> , 6(12):1543-1544 (1996)						
	CH	Wilkins et al., "Rapid Protein Identification Using N-Terminal 'Sequence Tag' and Amino Acid Analysis", <i>Biochemical and Biophysical Research Communications</i> , 221:609-613 (1996) Article No. 0643						
	CI	Wilkins et al. "Protein Identification with N and C-Terminal Sequence Tags in Proteome Projects", <i>J. Mol. Biol.</i> , 278:599-608 (1998)						
	CJ							
	CK							
	CL							

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